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MANIPAL UNIVERSITY

FOURTH SEMESTER B.A. (ID)/B.DES (ID) DEGREE EXAMINATION – APRIL/MAY 2017

**SUBJECT: BID 208 – BUILDING SERVICES II
(2014 SCHEME)**

Saturday, April 29, 2017

Time: 14:00 – 17:00 Hrs.

Max. Marks: 50

✍ **Answer any FIVE of the following.**

✍ **Illustrate with neat sketches and examples wherever required.**

1A. Explain the modern two way switches used for controlling a lamp.

1B. List and explain any two systems of wiring.

(6+4 = 10 marks)

2A. Explain in brief-intercom and PABX systems.

2B. Explain –Wi-Fi and its advantages in communication.

(5+5 = 10 marks)

3. Briefly describe the classification of lighting. Elaborate on the methods used in modern lighting design.

(4+6 = 10 marks)

4. What are conveyers? What are its types? Explain briefly its operation, selection and function for any one type.

(3+2+5 = 10 marks)

5. Discuss in brief any five commercially available acoustical materials and explain the application of these materials in buildings with sketches used for walls, floors and ceiling.

(2 marks × 5 = 10 marks)

6. **Differentiate between:**

6A. Sound foci and dead spots

6B. Air borne noise and structure borne noise

(5+5 = 10 marks)

